

PROJECT TITLE : SAVOURY  
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The objective of this project is to investigate the suitability of NINO-mass which is the biomass resulting from the NINO denitration process as raw material for reaction flavours. First priority is, in this context, the application of the reaction flavour concept to RL-sheet improvement. In particular, a more tobacco like smoke quality is being sought, perhaps going into the direction of Burley quality.

So far different hydrolysis schemes have been tried on the NINO-mass. Promising results were obtained either with HCL hydrolysis followed by evaporation of the HCL or with  $H_3PO_4$  hydrolysis followed by either neutralization or extraction of the soluble parts with alcohol.

In most of the trials glucose was used as sugar component.

A number of flavours have been obtained so far conveying to the RL-sheet notes ranging from penetrating meat flavour, chocolate, pop-corn, fruity notes, coffee or malt to the taste of dark tobacco.

For the panel evaluation the cigarettes were made up of 100 % RL with and without flavour treatment. As the overall smoke quality of 100 % RL sheet cigarettes is not good, trials have been started using the RL-sheet at a 50 % level in blended cigarettes. It is expected that this measure will make it easier for the panel to test larger numbers of samples.

So far, two promising reaction procedures have been found and experimental work will continue to reproduce these results.